

Patent Claims

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1. Gearbox with an actuating device for automated shifting and selection of a gear ratio, the gearbox having a gearbox operating element which is arranged to set the gear ratio and can be activated by means of an operating actor.
2. Gearbox with an actuating device for automated shifting and selection of a gear ratio, the gearbox having a gearbox operating element which is arranged to set the gear ratio and can be activated by means of an operating actor, the operating actor having a drive with a drive output element which, in response to a swivel movement of the drive output element, carries out a movement to engage a gear ratio or select a shift slot and at the same time acts upon a force accumulator which activates an intermediate element to operate the gearbox operating element for selection or shifting, the activation of the intermediate element being limited to a predetermined position by means of at least one retaining element.
3. Gearbox according to claim 1 or 2, characterized in that the gearbox operating element is a central shifting shaft, by means of which on axial displacement of the shifting shaft, engagement of a gear ratio and, on rotation of the gear shaft, selection of a shift slot can be carried out.

4. Gearbox according to claim 1 or 2, characterized in that the gearbox operating element is a central shifting shaft by means of which, on rotation of the shifting shaft, shifting into a gear ratio and, on axial displacement, selection of a shift slot can be carried out.

5. Gearbox according to one of the preceding claims, characterized by the provision of a form-locking connection between the drive output element and the gearbox operating element effective in the axial direction or in the circumferential direction of a rotary movement.

6. Gearbox according to one of the preceding claims, characterized by the provision between the intermediate element and the gearbox operating element of a selector element which can be acted upon by a force furnished by the intermediate element, and by the provision between the selector element and the gearbox operating element of a form-locking connection in the axial direction or in the circumferential direction of a rotary movement.

7. Gearbox according to claim 6, characterized in that the gearbox operating element can be activated, e.g., rotated, by means of an intermediate element against the force furnished by an energy storing device.

8. Gearbox according to claim 7, characterized in that the energy storing device is linked to the selector element at one force application point and is fixedly linked to the housing at another force application point.

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9. Gearbox according to claim 1 or 2, characterized in that at least one retaining element comprises a bolt which can be displaced and fixed by means of a magnet or an electric motor.
10. Gearbox according to claim 9, characterized in that the bolt limits or blocks rotation of the intermediate element in at least one of its selectable positions.